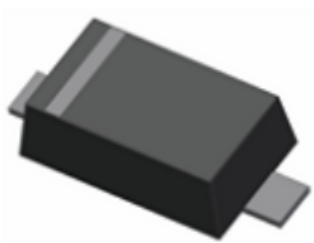


## Schottky Barrier Diode



SOD-523 Flat Lead



### Specification Features:

- Low Forward Voltage Drop
- Flat Lead SOD-523 Small Outline Plastic Package
- Extremely Small SOD-523 Package
- Surface Device Type Mounting
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

### Absolute Maximum Ratings T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
P <sub>D</sub>	Power Dissipation	200	mW
T <sub>STG</sub>	Storage Temperature Range	-55 to +125	°C
T <sub>J</sub>	Operating Junction Temperature	+125	°C
V <sub>R</sub>	Reverse Voltage	40	V
I <sub>F(AV)</sub>	Average Forward Current	200	mA

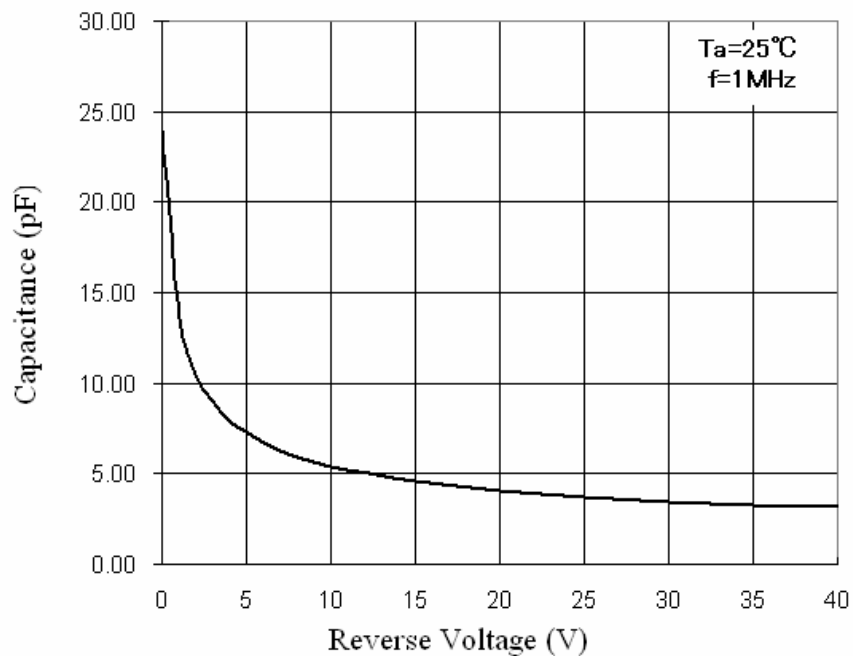
These ratings are limiting values above which the serviceability of the diode may be impaired.

### Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise noted

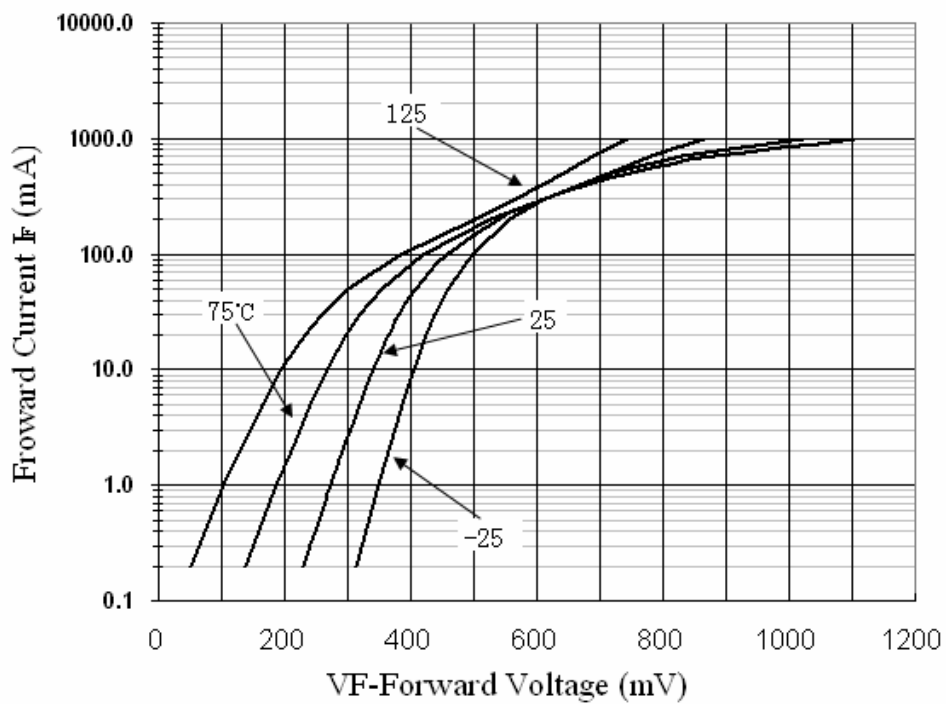
Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
B <sub>V</sub>	Breakdown Voltage	I <sub>R</sub> =10μA	40		Volts
I <sub>R</sub>	Reverse Leakage Current	V <sub>R</sub> =10V		1	μA
V <sub>F</sub>	Forward Voltage	I <sub>F</sub> =200mA		0.6	Volts

**Typical Performance Characteristics**

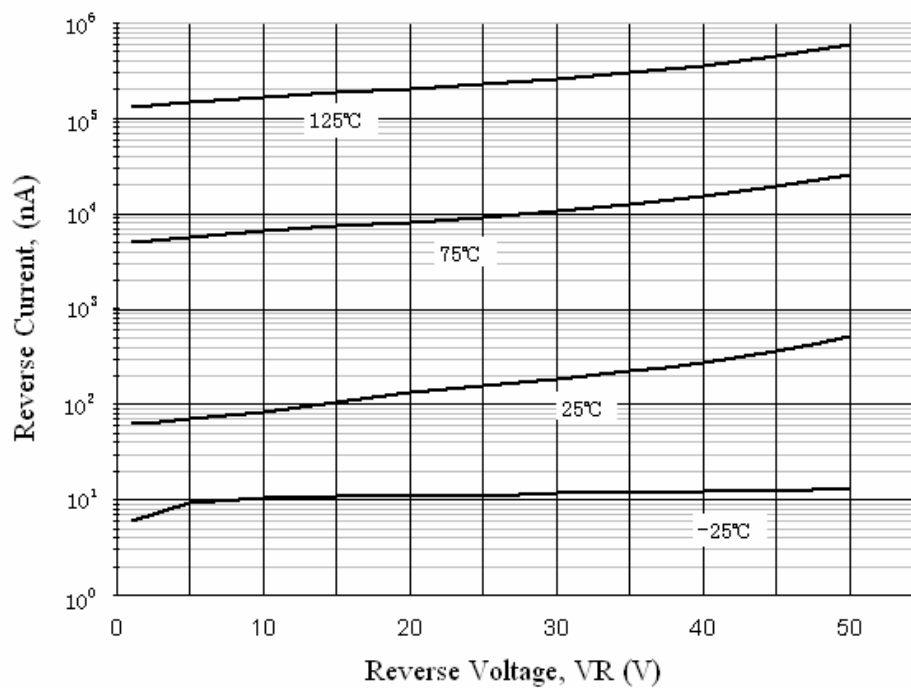
**Total Capacitance**



**Forward Voltage vs Ambient Temperature**

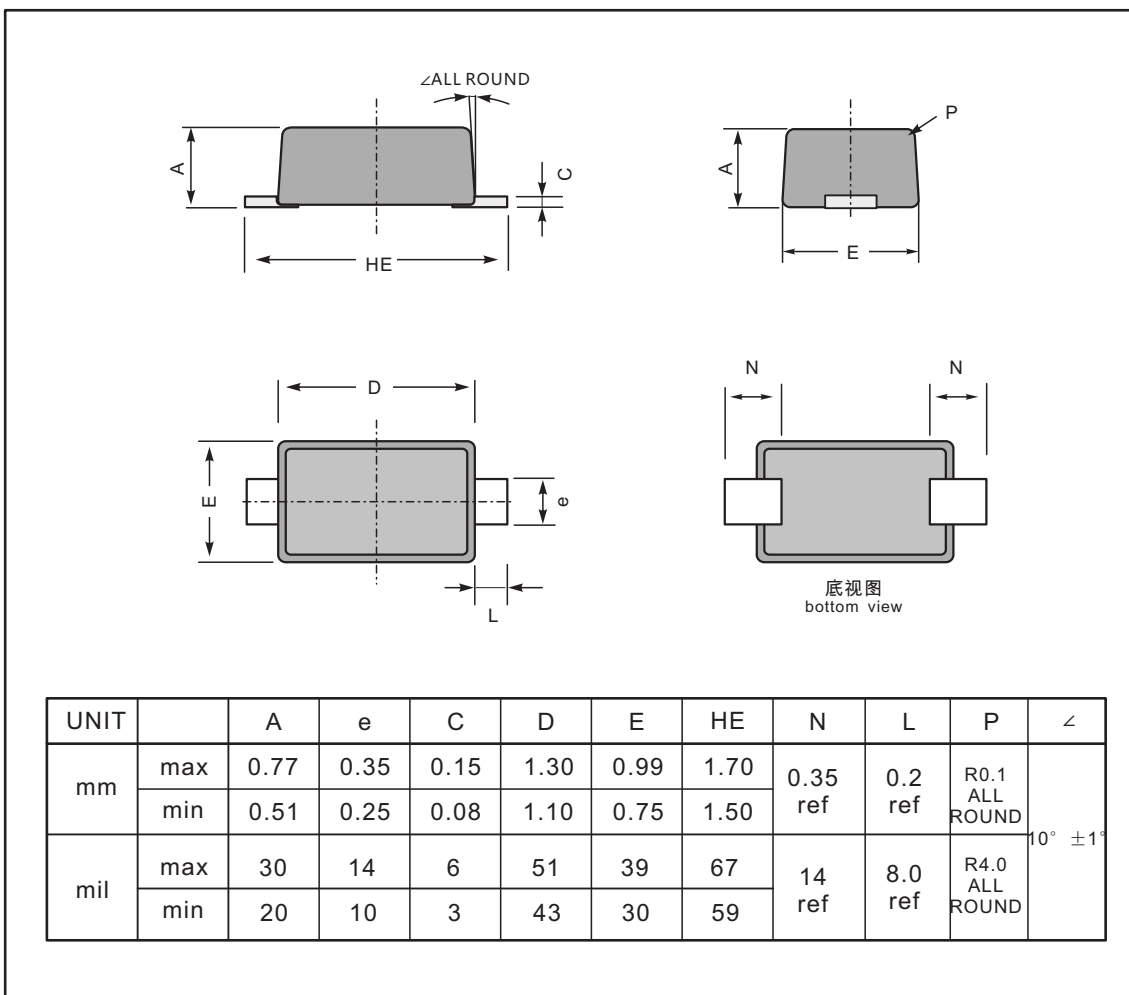


### Reverse Current vs Reverse Voltage

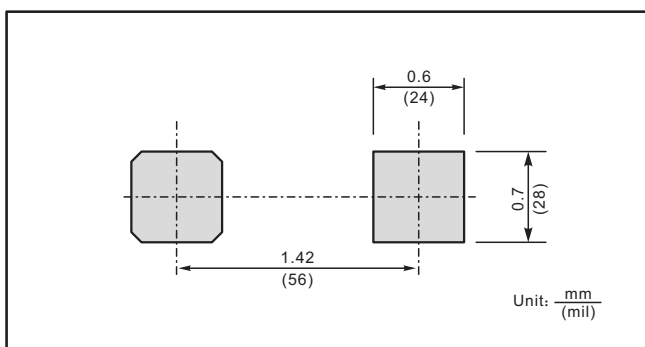


**PACKAGE OUTLINE**

Plastic surface mounted package; 2 leads



**The recommended mounting pad size**



**Marking**

Type number	Marking code
RB520S-40	3B